

Title (en)
Insulating material for enameled wire of motor of refrigeration compressor

Title (de)
Isolierstoff für Lackdrähte für Motoren von Kälteverdichtern

Title (fr)
Matériau isolant pour fils électriques émaillés pour moteurs de compresseurs de réfrigération

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Abstract (en)
The present invention provides an insulating material for the enameled wire of a motor of a refrigeration compressor using hydrofluorocarbons as the refrigerant and, as the refrigerating machine oil, a synthetic lubricating oil having at least one ester bond in a molecule such as ester-modified polyoxyalkylene glycol type, ester-modified ether type or ester type, which insulating material contains a compound having at least one carbodiimide group. This insulating material for the enameled wire of a motor of a refrigeration compressor, which is free from the above-mentioned problems of the prior art, which can prevent the surface deterioration or peeling (blister or cracking) etc. seen in the conventional insulating material used for covering the enameled wire (e.g. magnet wire) of a refrigeration compressor, caused by a mixture of the hydrofluorocarbons and the synthetic lubricating oil both used in the compressor, which invites neither insulation breakdown nor reduction in insulation and has improved resistances to said substitute flon and said synthetic lubricating oil, and which further can impart deterioration resistance to the synthetic lubricating oil.

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